Questions for Concentration of Solutions



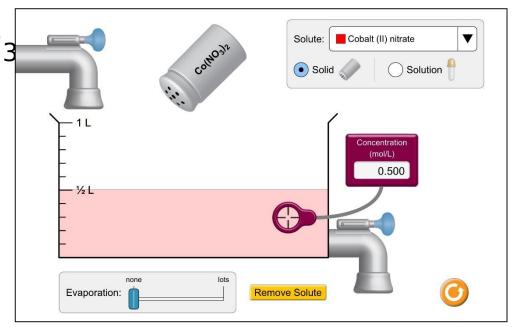
Chemistry 9th Grade

Student:		Section:		
	Date: _			

https://phet.colorado.edu/sims/html/concentration/latest/ concentration_en.html

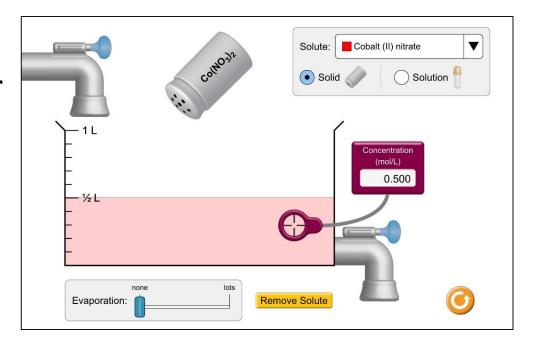
Which action(s) will **increase** the <u>concentration</u> of the solution?

- 1 Add more Co(NO₃
- ② Evaporate water
- 3 Drain solution
- A. (1) only
 - B. (1) and (2)
- C. (2) and (3)
- D. (1) and (3)
- E. (1), (2), and (3)



Which action(s) will change the <u>number of moles of solute</u> in the container?

- 1 Add water
- ② Evaporate water
- 3 Drain solution
- A. (1) only
- B. (2) only
- C. (3) only
- D. (1) and (2)
- E. (2) and (3)

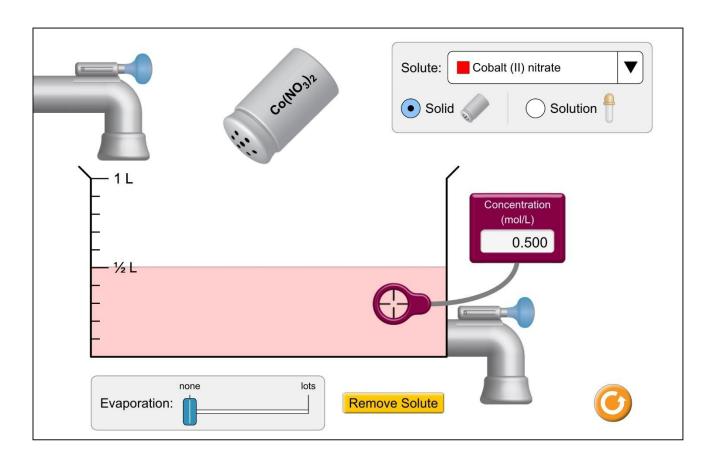


What will happen to the <u>concentration</u> and the <u>number of moles</u> when water is added?

Concentration Number of moles

Increase Decrease a. Cobalt (II) nitrate h. Increase Increase Solution = No change No change Concentration Decrease Decrease 0.500 1/2 L No change Decrease Evaporation: Remove Solute

How many moles of solute are in the beaker? (Show your calculations to find the number of moles).



a. 0.05 moles b. 0.50 moles c. 1.00 moles

d. 0.150 moles e. None of these